BURNS, DOANE, SWECKER AND MATHIS LLP
LN. FILING DATE: APRIL 25, 2001
LE: APPARATUS AND METHOD FOR DETECTION
ATTORNEY DOCKET NO: 018775-824

19 SHEETS

Fig. 1

CCD

IMAGE-DATA PROCESSOR

6

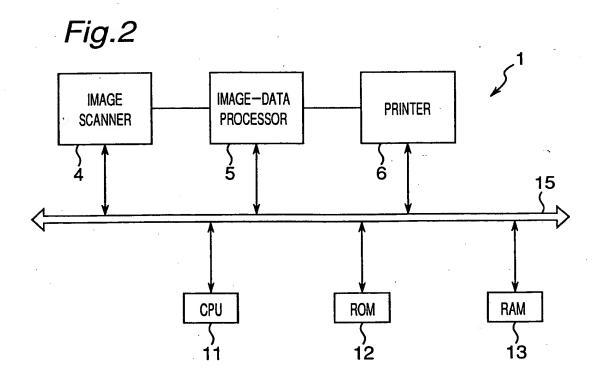
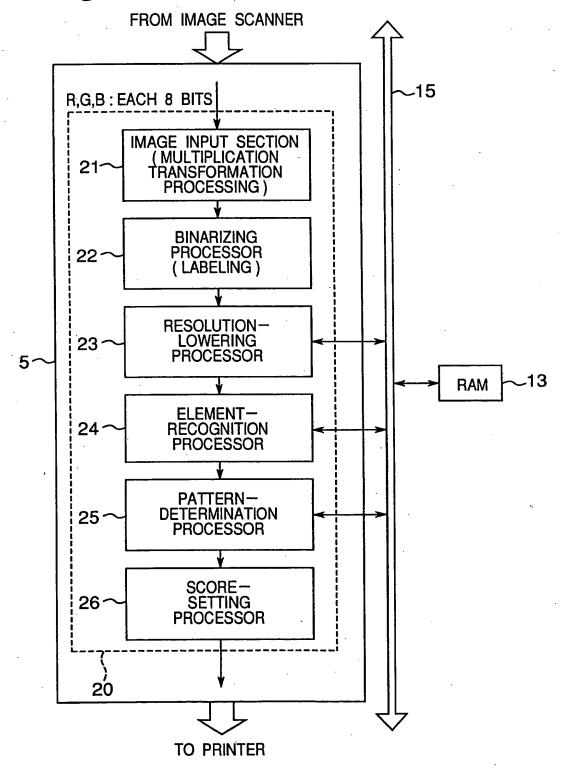
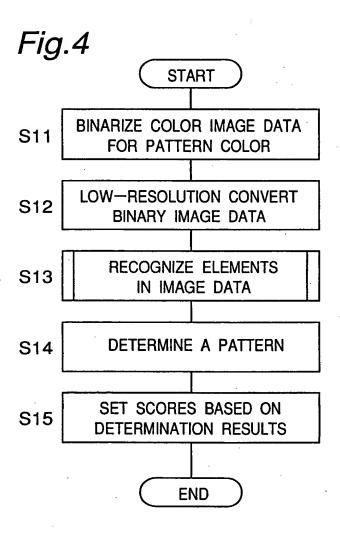


Fig.3





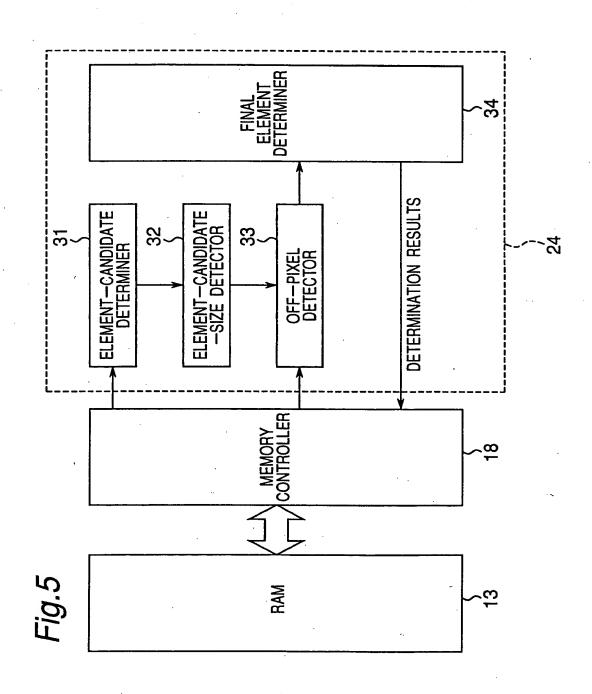
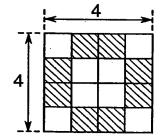
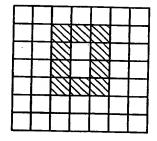


Fig.6



EXAMPLES OF OK

Fig.7A



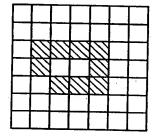
NUMBER OF

ON-PIXELS: 10

SIZE

:3X4

Fig.7B

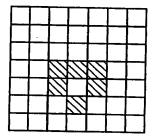


NUMBER OF

ON-PIXELS:9

SIZE :4X3

Fig.7C

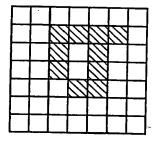


NUMBER OF

ON-PIXELS: 6

SIZE :3X3

Fig.7D



NUMBER OF

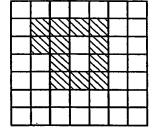
ON-PIXELS: 10

SIZE

:4X4

EXAMPLES OF NG

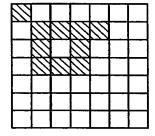
Fig.8A



NUMBER OF

ON-PIXELS:12 SIZE :4X4

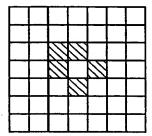
Fig.8B



NUMBER OF

ON-PIXELS:10 SIZE :5X4

Fig.8C

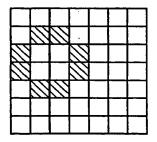


NUMBER OF

ON-PIXELS:5 SIZE

:3×3

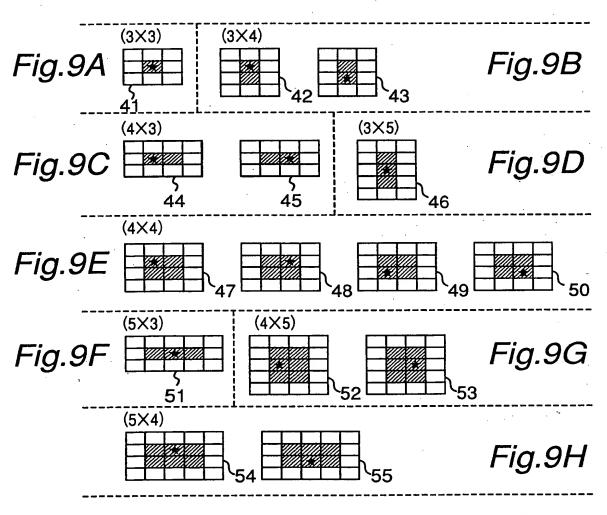
Fig.8D



NUMBER OF

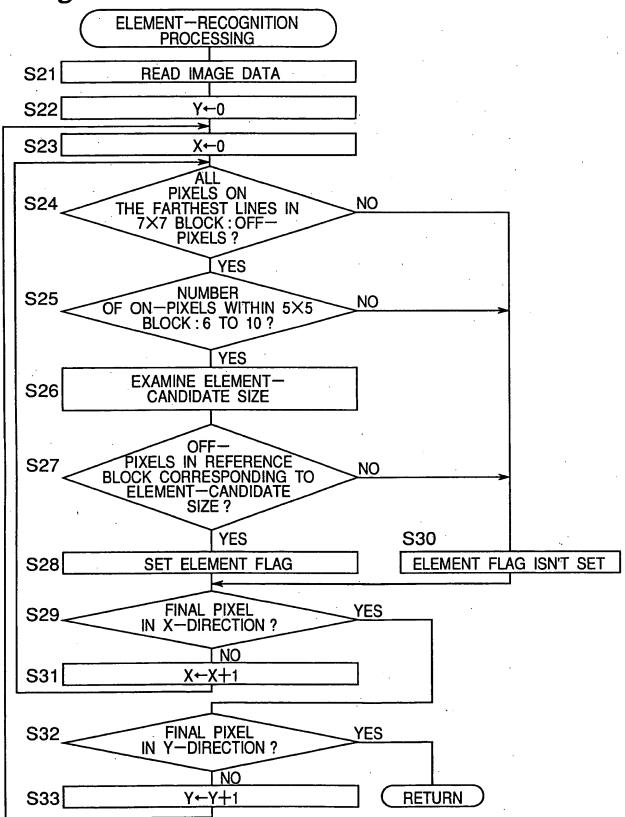
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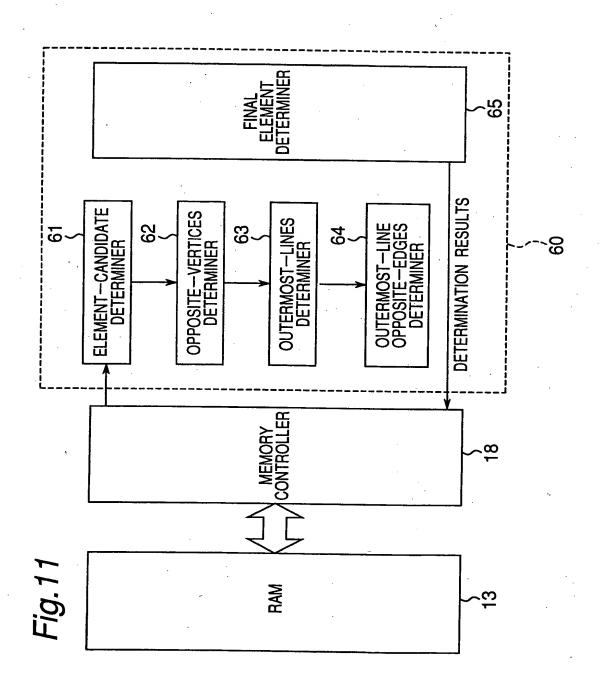
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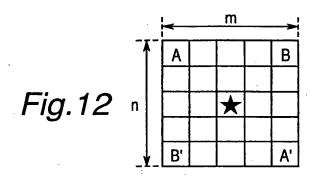


★: ATTENTION PIXEL

Fig.10

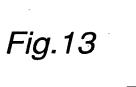


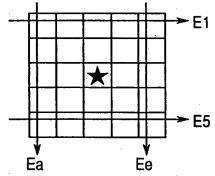




CONDITION $\begin{cases} A+A'<2\\ B+B'<2 \end{cases}$

★: ATTENTION PIXEL

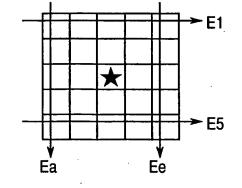




CONDITION $\begin{cases} E1 \leq 4 \\ E5 \leq 4 \\ Ea \leq 4 \\ Ee \leq 4 \end{cases}$

★: ATTENTION PIXEL

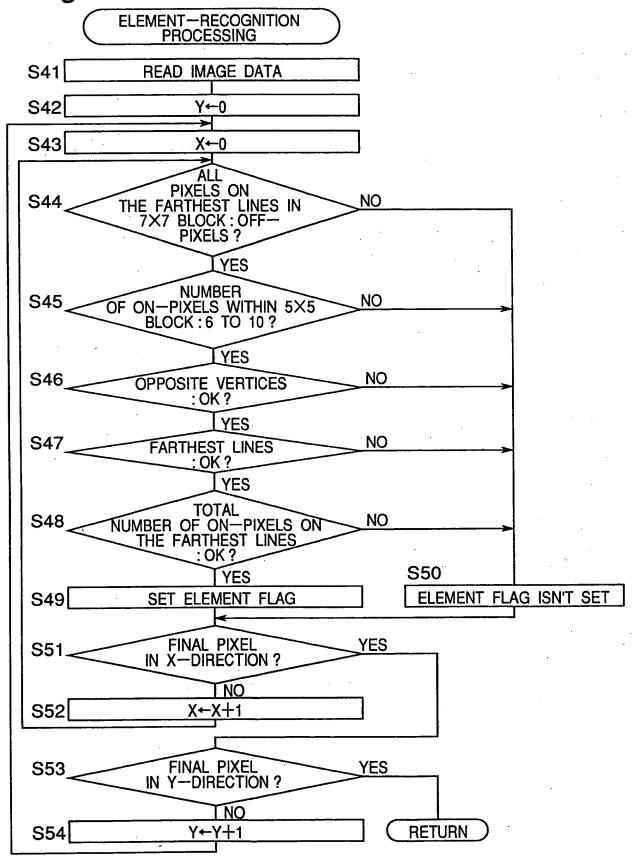
Fig.14

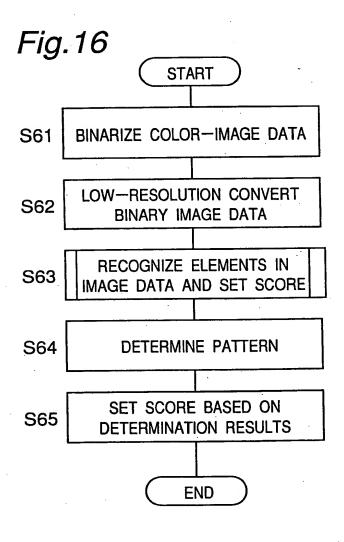


CONDITION Ea+Ee≤5

★: ATTENTION PIXEL

Fig.15





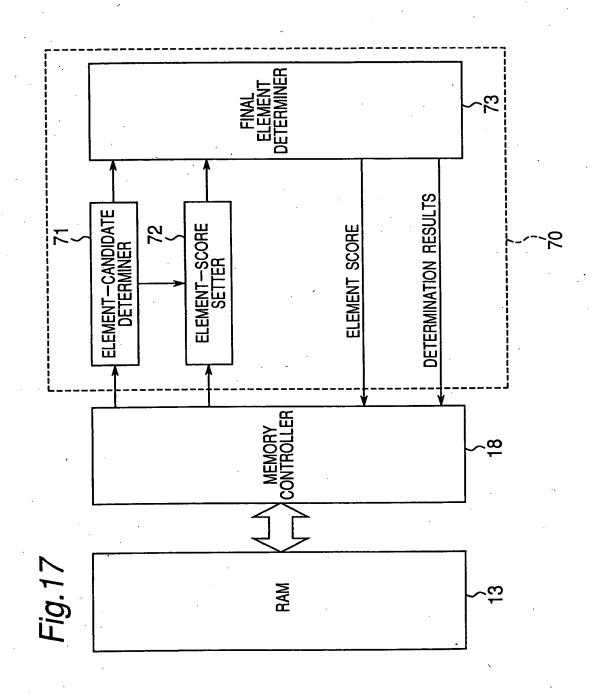
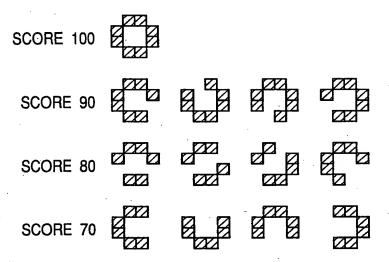
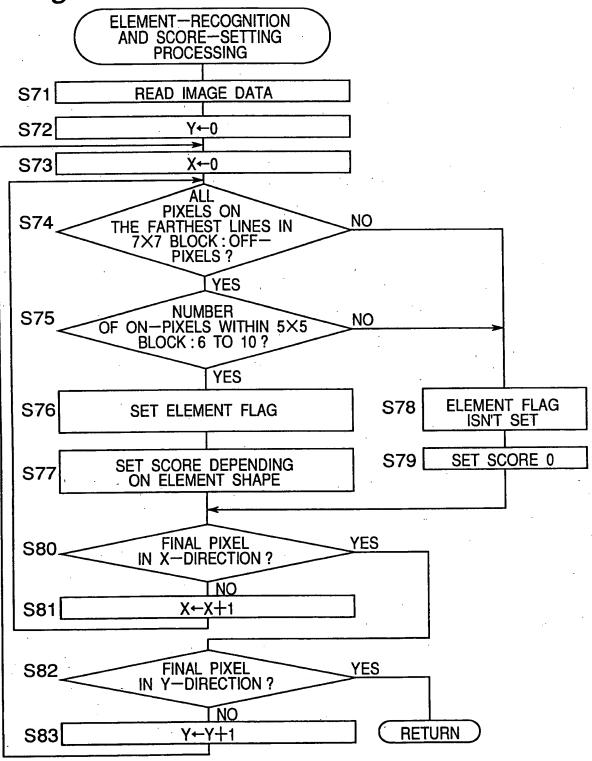
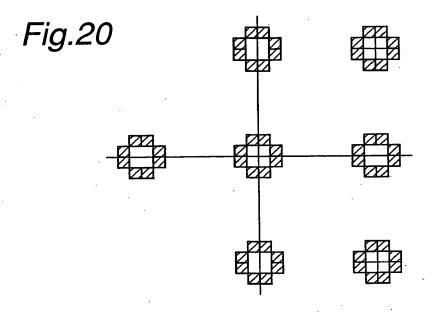


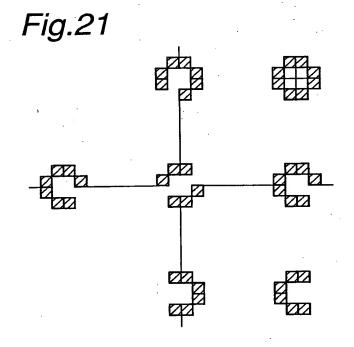
Fig.18











TOTAL SCORE: 520 SCORE 100×1 SCORE 90×3 SCORE 80×1 SCORE 70×2

